IP_Camera_영 문열지작중 2009.08.19 09:24 AM 페이지 3

# LG Electronics

Business Solutions Company

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- Exact products and specifications shown may vary by geographic region and are subject to change. Actual products may differ from the images appearing in the catalog.
- 2009 July version.

LG SmArt Network Solution

| | | | |
|---|---|---|---|
| CH1 | CH2 | CH3 | CH4 |
| CH5 | CH6 | CH7 | CH8 |
| CH9 | CH10 | | CH12 |
| CH13 | CH14 | CH15 | CH16 |

LG IP CAMERA

LG

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# When security and network meet the world becomes bigger

LSW900P/N

## Advanced Technology

A comprehensive network solution that brings analog and digital together. Through highly-evolved transmission technology, connectivity is worldwide and networking can be achieved with a variety of devices. With remote management capabilities, no matter where you are in the world, it's just like being on the scene.

- Simple and easy installation
- Economical installation cost
- Reduced upkeep costs

## Perfect Image

Life-like quality that's good enough to nab even the perfect criminal. You will be able to view the highest possible image quality using the smallest amount of data space and enjoy a clean and clear image thanks to the XDI DSP Chip Solution that prevents blur and adjusts for video quality.

- The highest picture quality with the lowest data usage
- Fluid network response
- Outstanding flexibility, powerful compatibility

## Active Management

Timely and rapid response to problems from occurrence through resolution. With the saving and storage of key scenes and a count of people in and out, the artificial intelligence system allows early diagnosis and recognition of problem situations actively, offering the perfect total care solution.

- A real-time remote care system
- Active monitoring system
- Diagnosis and procurement of evidence

# What makes the LG IP Solution different?

LG started out with the foundation of quality and performance of an analog camera, then digitize information, employ the H.264 codec and apply LG XDI technology, to offer up a truly advanced camera. But that's not all. Harmonizing innovative technology including dual streaming and full duplex audio along with VCA (Video Contents Analysis) in the IP camera, and LG's unique design, LG is heading up a new trend in security solution.

- CODEC H.264 — High video quality and resolution in D1 video recording feature that employs the latest H.264 Codec.
- MJPEG Dual Streaming H.264 — Dual-streaming capabilities for customized bandwidth management with two codecs, H.264 and MJPEG
- 0.00003Lux — Superior performance in backlight or low light conditions with the XDI chip
- Full Duplex — Full Duplex Audio[G.711(a-law, u-law), G.726]
- 64ch — Provides a Smart Station that manages up to 64 cameras.
- 3Powers — 3 Powers support (AC24V, DC12V, PoE)

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IP Fixed Network Camera

# LSW900P/N

• Extra Lens

## Features

- 540 TV Lines
- 1/3" Vertical Double Interline CCD
- Min. Illumination : 0.1 Lux (Color mode, Sens up off) 0.00003lux (B/W Mode, Sens up on)
- Compression : H.264, MJPEG(Dual Stream Support)
- Resolution (Max) : 704x480(NTSC), 704x576(PAL)
- Frame Rate (Max ) : 30 fps/25fps(NTSC/PAL) @ D1
- ICR True D&N
- Wide Dynamic Range
- 1port Video Output
- Two-way Audio
- Alarm In/Out
- Protocol : TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG)
- Client/Server Management S/W (Max 64ch Live/ NAS Recoding support)
- VCA(Video Contents Analysis) support
- 8 Privacy Masking
- AC24V, DC12V, PoE
- RS-485 Support

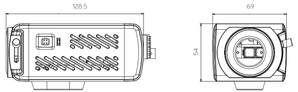
## Specifications

| Model | LSW900P/N |
|---|---|
| Type | IP Indoor Box Camera |
| Image sensor | 1/3" Vertical Double interline CCD |
| Lens | C/CS Mount |
| Day & Night | ICR Day & Night |
| Min illumination | Color : 0.1Lux(sens-up off)<br>B/W : 0.00003Lux(sens-up on) |
| Compression | Dual Stream Support(H.264, MJPEG) |
| Resolution(Max) | 704 x 480(NTSC), 704 x 576(PAL) |
| Backlight Compensation | BLC / WDR / HSBLC / OFF |
| Frame per second | 30 fps/25fps(NTSC/PAL) @ D1 |
| Audio | Full Duplex(G.726, G.711) |
| Alarm In/Out | 1 Digital input / 1 Relay output |
| Video In/Out | 1port video output(BNC) |
| Intelligent video | Advanced Motion Detection(VCA*) |
| Event Notification | Relay, SMTP, FTP |
| Ethernet Networks | 1port 10/100Base-Tx |
| Network Protocol | TCP/IP, HTTP,HTTPS, RTP, RTSP,UDP,DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG) |
| Management | Web GUI, Management Software(Max 64ch) |
| Security | Multi level user ID/password HTTPS encryption |
| Power | AC24V, DC12V, PoE |
| Serial Connectors | RS-485 |
| Operating Temp. | -10°C ~ 50°C |
| Dimensions | 69(W) x 54(H) x 128.5(D) |

* Clossing line, Intruder Detecton, Object Counting, Tampering, Object Removal (Model with VCA : LSW901P/N)

## Dimensions (unit : mm)

• W : 69mm • H : 54mm • D : 128.5mm




**Q&A**

**Can I select only the screens I want without looking at all the others?**

Checking screens with no problem is just a waste of time, efforts and costs. The intelligent monitoring system that detects screens with problems and enables prompt responses minimizes risks by quickly handing with sudden accidents.



IP Dome Network Camera

# LVW900P/N
# LVW700P/N

LVW900P/N LVW700P/N

## Features

- 540 TV Lines
- 1/3" Vertical Double Interline CCD
- Varifocal Lens (2.8~11mm)
- Min. Illumination : 0.1 Lux (Color mode, Sens up off) 0.00003lux (B/W Mode, Sens up on)
- Compression : H.264, MJPEG(Dual Stream Support)
- Resolution (Max) : 704x480(NTSC), 704x576(PAL)
- Frame Rate (Max) : 30 fps/25fps(NTSC/PAL) @ D1
- ICR True D&N
- Wide Dynamic Range
- 1port Video Output
- Two-way Audio
- Alarm In/Out
- Protocol : TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG)
- Client/Server Management S/W (Max 64ch Live/NAS Recoding support)
- VCA (Video Contents Analysis) support
- 8 Privacy Masking
- AC24V, DC12V, PoE
- Vandal Proof, IP66, 3-Axis (LVW900P/N)
- 3-Axis (LVW700P/N)

## Specifications

| Model | LVW900P/N / LVW700P/N |
|---|---|
| Type | IP Outdoor Dome Camera / IP Indoor Dome Camera |
| Image sensor | 1/3" Vertical Double interline CCD |
| Lens | Verifocal Lens (2.8~11mm) |
| Day & Night | ICR Day & Night |
| Min illumination | Color : 0.1Lux (sens-up off)<br>B/W : 0.00003Lux (sens-up on) |
| Compression | Dual Stream Support (H.264 , MJPEG) |
| Resolution(Max) | 704 x 480(NTSC), 704 x 576(PAL) |
| Backlight Compensation | BLC / WDR / HSBLC / OFF |
| Frame per second | 30 fps/25fps(NTSC/PAL) @ D1 |
| Audio | Full Duplex(G.726, G.711) |
| Alarm In/Out | 1 Digital input / 1 Relay output |
| Video In/Out | 1port video output(RCA) |
| Intelligent video | Advanced Motion Detection(VCA*) |
| Event Notification | Relay, SMTP, FTP |
| Ethernet Networks | 1port 10/100Base-Tx |
| Network Protocol | TCP/IP, HTTP, HTTPS, RTP, RTSP,UDP,DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG) |
| Management | Web GUI, Management Software(Max 64ch) |
| Security | Multi level user ID/password HTTPS encryption |
| Power | AC24V, DC12V, PoE |
| Operating Temp. | -30°C ~ 50°C(Heater) / -10°C ~ 50°C |
| Dimensions | 156(Diameter) X 155(H) / 156(Diameter) X 155.8(H) |
| Others | Vandal Proof, IP66, 3-Axis / 3-Axis |

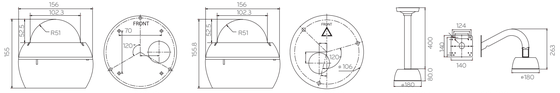
* Clossing line, Intruder Detecton, Object Counting, Tampering, Object Removal (Model with VCA : LVW901P/N, LVW701P/N)

## Dimensions (unit : mm)

LVW900P/N • Diameter : 156mm • H : 155mm

LVW700P/N • Diameter : 156mm • H : 155.8mm

## Brackets




• LVW900P/N • LVW700P/N • LSO-300P • LSO-300W

**Q&A**

**What kind of equipment would we need to show the parents of kindergartners what their children are up to at school?**

If you have an IP camera installed, it's really quite simple. If you simply connect to the Internet and open the web client screen, without any other additional equipment, anyone can monitor the children in real time.

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Network Video Encoder

# LVS301

## Features

- Video Server
- 1Ch Video Input (CVBS)
- Compression : H.264, MJPEG(Dual Stream Support)
- Resolution(Max) : 704 x 480(NTSC), 704 x 576(PAL)
- Frame Rate(Max) : 30 fps/25fps(NTSC/PAL) @ D1
- 1port Video output
- Two-way Audio
- Alarm In/Out
- Protocol : TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG)
- Client/Server Management S/W (Max 64ch Live/NAS Recoding support)
- VCA (Video Contents Analysis) support
- 8 Privacy Masking
- AC24V, DC12V, PoE
- RS-422& RS-485 Support

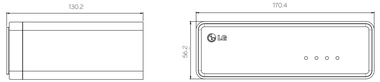
## Specifications

| Model | LVS301 |
|---|---|
| Type | IP Video Server |
| Compression | Dual Stream Support(H.264 , MJPEG) |
| Resolution(Max) | 704 x 480(NTSC), 704 x 576(PAL) |
| Frame per second | 30 fps/25fps(NTSC/PAL) @ D1 |
| Audio | Full Duplex(G.726, G.711) |
| Alarm In/Out | 1 Digital input / 1 Relay output |
| Video In/Out | 1port video input/output(BNC) |
| Intelligent video | Advanced Motion Detection(VCA*) |
| Event Notification | Relay, SMTP, FTP |
| Ethernet Networks | 1port 10/100Base-Tx |
| Network Protocol | TCP/IP, HTTP, HTTPS, RTP, RTSP,UDP,DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG) |
| Management | Web GUI, Management Software(Max 64ch) |
| Security | Multi level user ID/password HTTPS encryption |
| Power | AC24V, DC12V, PoE |
| Serial Connectors | RS-422 & RS-485 |
| Operating Temp. | -10°C ~ 50°C |
| Dimensions | 170.4(W) X 56.2(H) X 130.2(D) |

* Clossing line, Intruder Detector, Object Counting, Tampering, Object Removal (Model with VCA : LVS311)

## Dimensions (unit : mm)

• W : 170.4mm • H : 56.2mm • D : 130.2mm




## Q&A

**Isn't there something we can do about illegal parking that clogs up the streets?**

Traffic jams caused by illegally parked vehicles. It's just not possible to have someone watching a monitor all-day long. But with VCA(Video Contents Analysis), you don't have to worry. If the designated time has passed and a parked vehicle hasn't been moved from a particular area, a warning announcement can be sounded through the speaker.



A security management system
that extends farther, and gives you more freedom

# LG Smart Station

The ability to cover a lot of screens at the same time to assess problem areas and tackle them rapidly depends precisely on what kind of software you are using. Now it's time for you to experience the difference of the LG Smart Station, which allows for the efficient management of the maximum number of channels and simple overall control.

## Specifications

| Category | Function | Description |
|---|---|---|
| Live View (Display) | Max Channel | 64ch Live Display |
| | Channel Division | 1, 2 x 2, 3 x 3, 4 x 4, 6x 6, 8 x 8, 6, 8, 10 |
| | Full Screen | Full Screen in the Smart Client s/w |
| | Page | (16ch x 4), Quad Monitor support |
| | OSD | Text (Recording, network, camera name, frame rate, video time display) |
| | PTZ Control | PTZ control using mouse & GUI |
| | Video Network | Codec(H.264/MJPEG) RTP over RTSP(TCP)/UDP |
| Search (Playback) | Audio | Two-way Audio(G.711, G.726) |
| | Multiple camera search | Multiple camera search (Different time) at the same time |
| | Search | Date, Time, Event(Sensor, VCA), Log |
| | Play | Forward, Backword(I frame only), Next frame, Previous Frame, Stop |
| Mamagement | Total Management | Group add / delete / edit, Group management |
| | Camera | Add/Edit/Delete Use Master account, Use Specific account, Camera Name |
| | Schedule | Recording schedule support |
| | Camera Notification | Spot(PopUp Window) on Event |
| | Configuration | Configuration(Remote Server Setup) |
| | Still image | JPEG |
| | Video | AVI |
| | VCA | Crossing line, Intrusion, Detection, Object Counting, Tampering, Object Removal (Option) |
| | E-Map | JPEG, BMP support |

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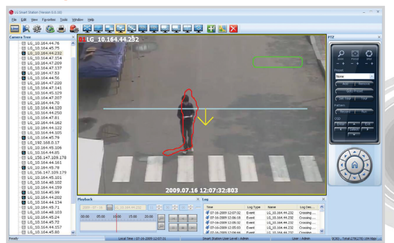
LG Smart Station

# VCA

## A self-assessing management solution **Video Contents Analysis**

VCA is a systematic approach monitoring, that selects the appropriate security environment and provides a wide array of features that make management simple, including automatic counters and alarms. (VCA Optional)

## Crossing Line

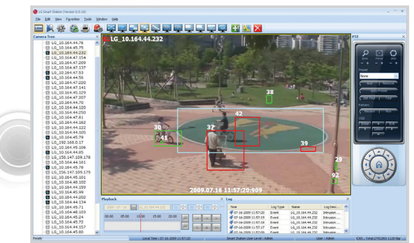



If a line is drawn on a screen and the direction is set, anything crossing that line or traveling in the opposite direction can be confirmed.

**Applications**

- Notification of any vehicles traveling against traffic on one-way roads.
- Notification when museum-goers approach an artwork too closely.

## Intruder Detection




AREA

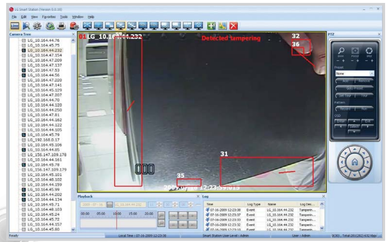
Designate a particular region, and this feature will send a notification if the area has been breached.

**Applications**

- Notification when a vehicle has exceeded the alloted idle time in a no-parking zone.
- Sends a notification when any person, animal, or thing breaches a particular area of a building.

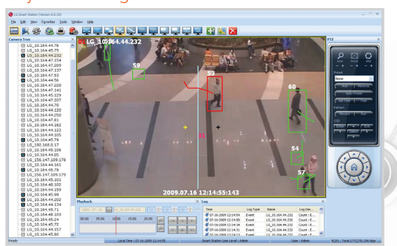


## Tampering




When someone has tampered with the camera or the camera has been damaged for other reasons, it will inform you immediately.

## Object Counting

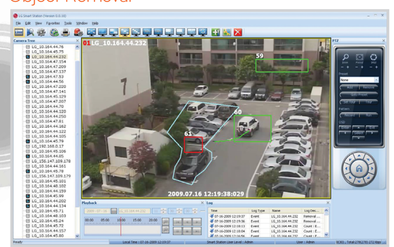



After drawing a line and setting the direction, this feature will count the number of subjects that crossed the line.

**Applications**

- Determining the number of available spaces in a parking lot by counting the number of cars in and out.
- Counting the number of people in and out of shopping malls.

## Object Removal




Notification when a certain object has been removed from a specified area.

**Applications**

- Notification when objects are lost from storerooms.
- Records when a vehicle leaves a parking lot.

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LG Smart Station

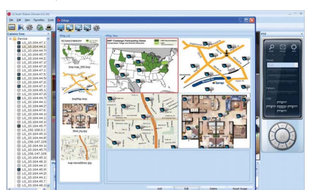
# Emap

## A auto-locating security solution Emap

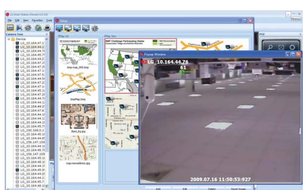
It displays the location of cameras and the event occurrence point and sends a pop-up to the screen when a problem arises, making concentrated management possible.

Smart Station can be used with city, zone, building etc. maps.

Displays the location of IP cameras and denotes cameras in vicinity of an event.



Pop-up feature of detailed image.



Search is available by inscription on image snapshots.



Network Attached Storage

# NAS

Are you still relying on your old centralized video recording system?
Why not consider equipping yourself with an IP for free and easy monitoring anywhere in the world?
Whether you're on a business trip, off-site duty, or traveling leisurely, you're always connected. Search 16 channels seamlessly free of any data capacity limitations with artificial intelligence using the revolutionary de-centralized IP system, NAS.
It will change the way you think about mobility forever.

## NAS gives your security cameras wings.

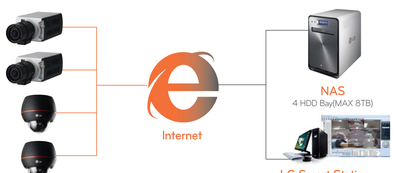
**Unlimited data storage power that transcends the OS environment**
When you connect through the Internet or network, storage and sharing or materials is possible across a variety of platforms (Windows, Linux, and Mac) and media can be recorded onto a maximum 50GB Blu-ray disk.

**Easy and convenient to use**
Even if you're not an IT professional, with just a connection to the Internet, anyone can easily install or maintain the system. Additionally, just connect from anywhere at any time, and you will have the freedom to edit and share information, and update data.

What is NAS? NAS is an innovative system that uses a decentralized data recording method for image information, that minimizes data capacity usage and maximizes storage power.

Intensive NVR system

Extensive NVR system



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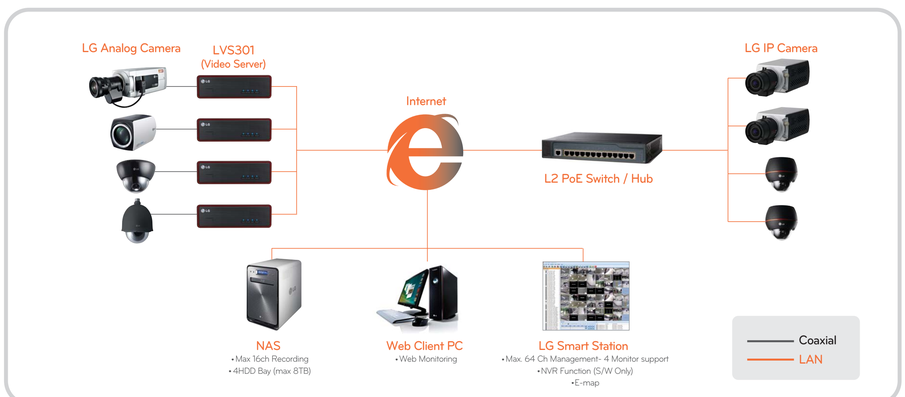
LG IP Camera

# System Map

- Unlike the existing analogue products connected to the IP system via video servers, LG IP Camera is able to be connected to a limitless number of cameras with the below structure.
- Video data of every camera is sent to NAS, and networking with Smart Station and IP Camera is optimized to ensure successful monitoring in any network environment.
- One unit of NAS supports playback and recording of up to 16 channels.
- Smart Station is capable of managing up to 64 channels, and provides the optimal monitoring environment by controlling every function of LG IP Camera including VCA and E-Map.
- In the small-scale environment with 16 or less units, users do not need to have NAS, thanks to 16-channel Smart Station that is provided for free by LG. In the large-scale setting, users may enjoy limitless scaling up with the below system.






LG IP Camera

# Security Ground

At anywhere, any time, let networking set you free! In any situation, it's clean and clear!
Integrated security control system faster and speedier than any other!
You will feel comfortable if you are with LG Smart Network products.

## Education

### Kindergartens / Institutions / Schools

What children are up to in the classes and other learning activities are transmitted to their parents in real time, so parents can check their children only through connecting to the Internet.

## Government

### Government Offices

In the locations that require tight admittance control, such as the National Assembly, government offices, and public agencies, it helps to prevent information leaks and ensures safe public facilities control.

## Transport

### Airports / Stations / Terminals

When installed in areas with high concentration of floating population, it is possible to grasp the situation in real-time and control the situation safely in case of unexpected occurrences.

## Shopping Mall

### Large-scale shopping malls, parking lots

The current condition of products in and out in parking lots or logistic storages on the premise is transmitted to the person in charge. The remote control of parking areas is possible, preventing extra work for the overseer.

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## Specifications

| Model | LSW900 | LVW900 / LVW700 |
|---|---|---|
| Image Sensor | 1/3" Vertical Double Interline CCD | 1/3" Vertical Double Interline CCD |
| Type | C/CS Mount | Varifocal Lens(2.8~11mm) |
| Video Out | 1.0Vp-p Composite Signal (75ohm) | 1.0Vp-p Composite Signal (75ohm) |
| Auto Gain Control | OFF/ LOW/ MIDDLE/ HIGH | OFF/ LOW/ MIDDLE/ HIGH |
| Exposure | ALC/ELC | ALC/ELC |
| Electric Shutter | 1/50 ~ 1/90,000(PAL), 1/60~1/90,000(NTSC) | 1/50 ~ 1/90,000(PAL), 1/60~1/90,000(NTSC) |
| Day/Night | ICR Day and Night ( Auto/ Day / Night ) | ICR Day/Night (Vari focal Lens)( Auto / Day / Night ) |
| Sens-Up | Auto / OFF | Auto / OFF |
| Min. Illumination | 0.1 Lux (Color mode, Sens up off)<br>0.00003lux (B/W Mode, Senseup on) | 0.1 Lux (Color mode, Sens up off)<br>0.00003lux (B/W Mode, Senseup on) |
| Resolution | 540 TV Lines | 540 TV Lines |
| White Balance | ATW / AWC / Manual | ATW / AWC / Manual |
| Backlight Compensation | BLC / WDR / HSBLC / OFF | BLC / WDR / HSBLC / OFF |
| 3D-DNR | OFF / Low / Middle / High | OFF / Low / Middle / High |
| Privacy Masking | 8 Zone | 8 Zone |
| Digital Zoom | X8 | X8 |
| DIS(Stabilizer) | ON / OFF | ON / OFF |
| Digital Effect | OFF / V-Flip / Mirror / Rotate | OFF / V-Flip / Mirror / Rotate |
| Sharpness | Adjustable | Adjustable |
| Resolution(Max) | 704 x 480(NTSC), 704 x 576(PAL) | 704 x 480(NTSC), 704 x 576(PAL) |
| Output | RJ-45(Network), CVBS(Monitor) | RJ-45(Network), CVBS(Monitor) |
| Frame Rate(Max) | 30 fps/25fps(NTSC/PAL) @ D1 | 30 fps/25fps(NTSC/PAL) @ D1 |
| Video Compression | H.264(Basic Profile)<br>MJPEG<br>Dual Stream Support | H.264(Basic Profile)<br>MJPEG<br>Dual Stream Support |
| Streaming | Dual compressed stream Independent selection of Audio/Video Codec<br>RTP/RTSP<br>(Independent resolution, compression<br>frame rate and bit rate (CBR/VBR) setting support) | Dual compressed stream Independent selection of Audio/Video Codec<br>RTP/RTSP<br>(Independent resolution, compression<br>frame rate and bit rate (CBR/VBR) setting support) |
| Direction | Full Duplex(Line level input/output ) - Audio Input 1Ch, Audio Output 1Ch | Full Duplex(Line level input/output ) - Audio Input 1Ch, Audio Output 1Ch |
| Audio Compression | G.726, G.711(A-law, u-law) | G.726, G.711(A-law, u-law) |
| Alarm In/Out | 1 digital inputs, 1 relay outputs | 1 digital inputs, 1 relay outputs |
| Pre/Post Alarm Buffer | Pre Alarm Buffer<br>Post Alarm Buffer | Pre Alarm Buffer<br>Post Alarm Buffer |
| Intelligent Video | Advanced Motion Detection(VCA) | Advanced Motion Detection(VCA) |
| Event Detection | Alarm In, VCA | Alarm In, VCA |
| Event Notification | Relay, SMTP, FTP | Relay, SMTP, FTP |
| ID/Password | Multi level user ID/password(Admin, Power,Normal, Customer) | Multi level user ID/password(Admin, Power,Normal, Customer) |
| Encryption | HTTPS(SSL,TLS) | HTTPS(SSL,TLS) |
| Physical Layer | 10/100base TX Ethernet | 10/100base TX Ethernet |



| Model | LSW900 | LVW900 / LVW700 |
|---|---|---|
| Protocol | TCP/IP, HTTP, HTTPS,<br>RTP,RTSP,UDP,DHCP,FTP,SMTP,NTP,ARP,ICMP, DDNS(LG) | TCP/IP, HTTP, HTTPS,<br>RTP,RTSP,UDP,DHCP,FTP,SMTP,NTP,ARP,ICMP, DDNS(LG) |
| IP support | Dynamic, Static, Private IP | Dynamic, Static, Private IP |
| Simultaneous Connection | Unicast 10 Streams / 50 user registration | Unicast 10 Streams / 50 user registration |
| Operating Condition | -10°C ~ 50°C | -30°C ~ 50°C(Heater)(LVW900) -10°C ~ 50°C(LVW700) |
| Power | AC24V, DC12V, PoE | AC24V, DC12V, PoE |
| Dimensions | 69(W) x 54(H) x 128.5(D) | 156(Diameter) x 155(H)(LVW900) 156(Diameter) x 155.8(H)(LVW700) |
| Other | RS-485 Support | Vandal Proof, IP66, 3-Axis(LVW900) 3-Axis(LVW700) |

| Model | LVS301 | |
|---|---|---|
| Resolution(Max) | 704 x 480(NTSC), 704 x 576(PAL) | Intelligent Video | Advanced Motion Detection(VCA) |
| Input | 1Ch Video Input(CVBS) | Event Detection | Alarm In, VCA |
| Output | RJ-45(Network), CVBS(Monitor) | Event Notification | Relay, SMTP, FTP |
| Frame Rate(Max) | 30 fps/25fps(NTSC/PAL) @ D1 | ID/Password | Multi level user ID/password(Admin, Power,Normal, Customer) |
| Video Compression | Dual Stream Support(H.264 MJPEG) | Encryption | HTTPS(SSL,TLS) |
| Streaming | Dual compressed stream<br>Independent selection of Audio/Video Codec<br>RTP/RTSP<br>(Independent resolution, compression<br>frame rate and bit rate (CBR/VBR) setting support) | Physical Layer | 10/100base TX Ethernet |
| | | Protocol | TCP/IP(IPv4), HTTP, HTTPS,<br>RTP,RTSP,UDP,DHCP,FTP,SMTP,NTP,ARP,ICMPDDNS(LG) |
| | | IP support | Dynamic, Static, Private IP |
| Direction | Full Duplex(Line level input/output ) - Audio Input 1Ch,<br>Audio Output 1Ch | Simultaneous Connection | Unicast 10 Streams / 50 user registration |
| | | Operating Condition | -10°C ~ 50°C |
| Audio Compression | G.726, G.711(A-law, u-law) | Power | AC24V, DC12V, PoE |
| Alarm In/Out | 1 digital input, 1 relay output | Dimensions | 170.4(W) x 56.2(H) x 130.2(D) |
| Pre/Post Alarm Buffer | Pre Alarm Buffer<br>Post Alarm Buffer | Other | RS-422& RS-485 Support |